




6SQ7, 6SQ7-GT/G

DUPLEX-DIODE HIGH-MU TRIODE

6SQ7
6SQ7-GT/G

Heater	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.3	amp.
Direct Interelectrode Cap.	6SQ7	6SQ7-GT/G
Triode Unit:		
Grid to Plate	1.6	1.8 μ f
Grid to Cathode	3.2	4.2 μ f
Plate to Cathode	3.0	3.4 μ f
Maximum Overall Length	2-5/8"	3-5/16"
Maximum Seated Height	2-1/16"	2-3/4"
Maximum Diameter	1-5/16"	1-5/16"
Bulb	Metal Shell, MT-8	T-9
Base	{ Small Wafer Octal 8-Pin	{ Small Wafer Octal 8-Pin, Sleeve
Basing Designation	8Q	GT-8Q
Pin 1 { 6SQ7, Shell 6SQ7-GT/G, Base Sleeve		Pin 4 - Diode Plate #2
Pin 2 - Triode Grid		Pin 5 - Diode Plate #1
Pin 3 - Cathode		Pin 6 - Triode Plate
Pin 4 - Cathode		Pin 7 - Heater
Pin 5 - Cathode		Pin 8 - Heater
Mounting Position		Any
Maximum Ratings Are Design-Center Values		
TRIODE UNIT		
Plate Voltage		300 max. volts
D-C Heater-Cathode Potential		100 max. volts
Characteristics - Class A ₁ Amplifier:		
Heater	6.3	6.3 volts
Plate	100	250 volts
Grid	-1	-2 volts
Amp. Fact.	100	100
Plate Res.	110000	91000 ohms
Transcond.	900	1100 μ mhos
Plate Cur.	0.4	0.9 ma.
Typical Operation—Resistance-Coupled Amplifier:		
Same as Type 75 in RESISTANCE-COUPLED AMPLIFIER CHART.		
DIODE UNITS—Two		
Consideration of these units is given under Type 85. Circuits will be similar to those shown for Type 55 with fixed bias. Diode biasing of the triode unit of the 6SQ7 or 6SQ7-GT/G is not suitable. Diode curves under Type 687 apply to the 6SQ7 and 6SQ7-GT/G.		
▲ with shell connected to cathode. Values are approximate.		
● With no external shield. Values are approximate.		
The curve under Type 75 also applies to the 6SQ7 and the 6SQ7-GT/G.		
←Indicates a change.		

DEC. 1, 1943

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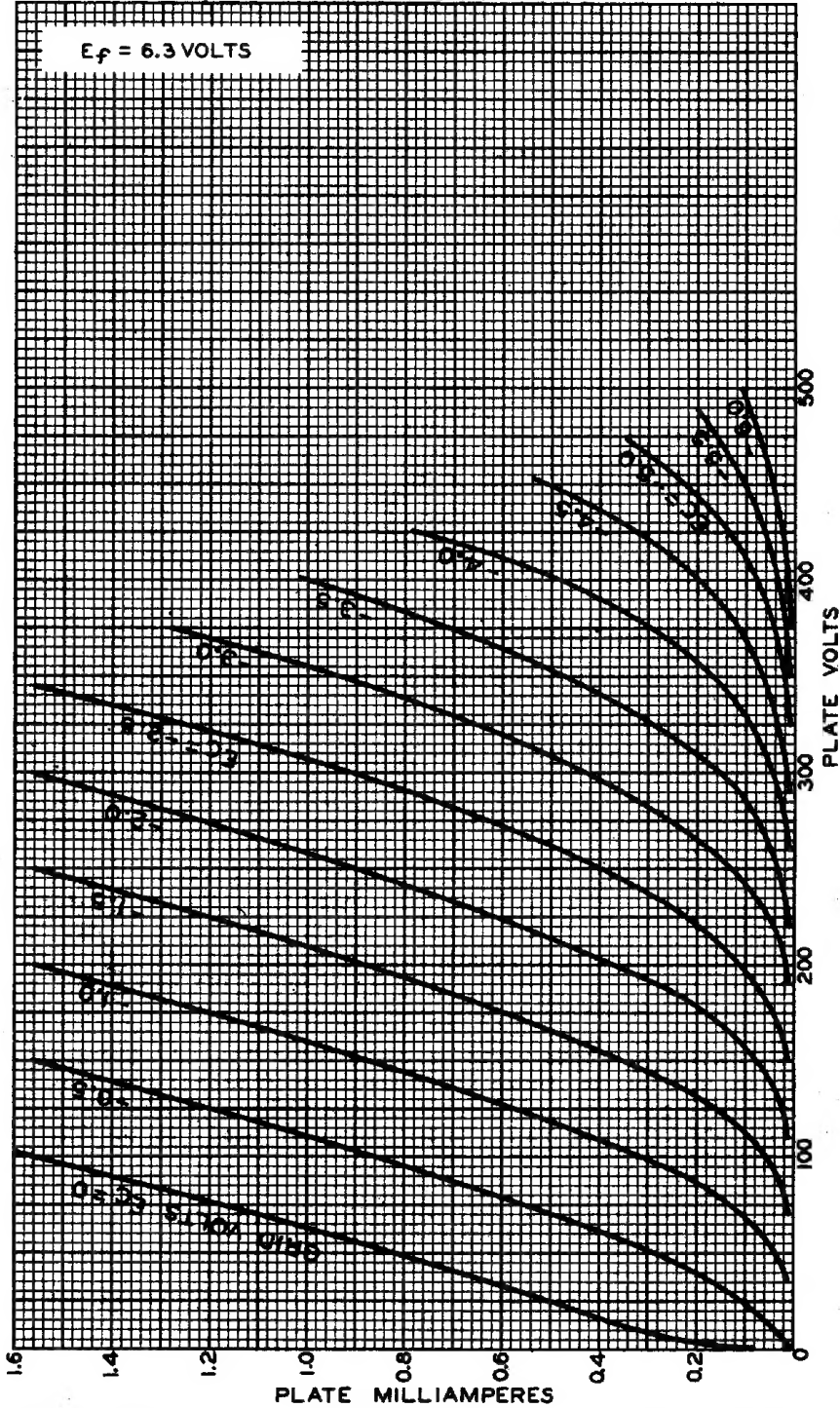
DATA

6SQ7



6SQ7

AVERAGE PLATE CHARACTERISTICS TRIODE UNIT



DEC. 14, 1943

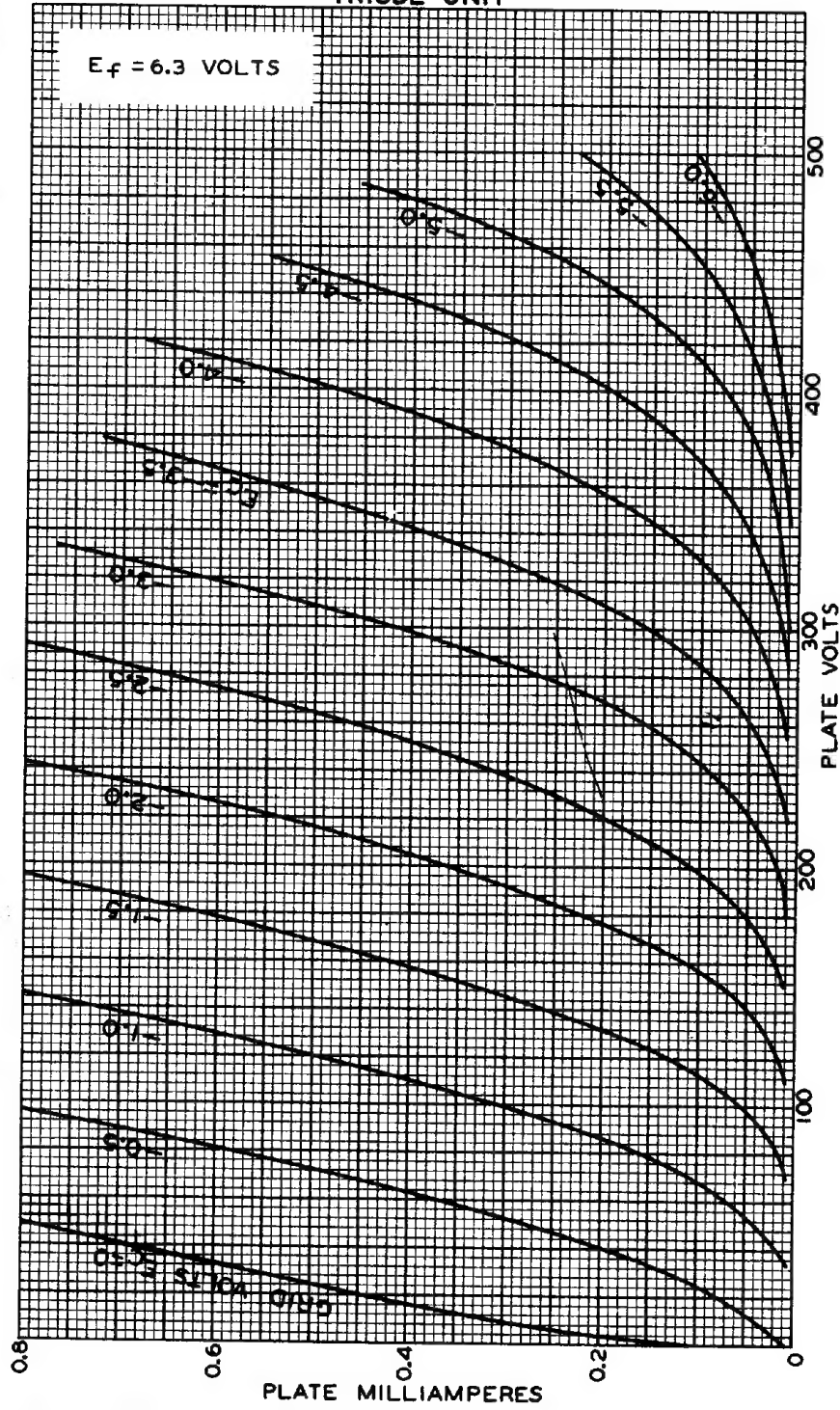
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92CM-4975R2



6SQ7

AVERAGE PLATE CHARACTERISTICS TRIODE UNIT



AUG. 13, 1941

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-6310